



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 549
FORT MEADE, MARYLAND 20755-0549

IN REPLY
REFER TO: Joint Interoperability Test Command (JITE)

28 Dec 11

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Avaya Aura™ AS5300 Wide Area Network (WAN) Softswitch (SS), Version 2.0 (with specified patch releases)

References: (a) DoD Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004
(b) CJCSI 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
(c) through (e), see Enclosure

1. References (a) and (b) establish the Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.
2. The Avaya Aura™ AS5300 WAN SS, Version 2.0 (with specified patch releases); hereinafter referred to as the System Under Test (SUT), is certified for joint use within the Defense Information System Network (DISN) as a WAN SS. The Defense Information Systems Agency (DISA) adjudicated all open Test Discrepancy Reports (TDRs) to have a minor operational impact. The fielding of the SUT is limited to IP version 4 (IPv4) across the DISN based on the fielding environment, IP version 6 (IPv6) partial compliance and Plan of Action and Milestones (POA&M) to address the remaining IPv6 discrepancies in their next major release in 2012. DISA retains the authority to remove this product from the Department of Defense (DoD) Unified Capabilities (UC) Approved Products List (APL) as follow-on products are fielded with full IPv6 capability. Any new discrepancy noted in the operational environment will be evaluated for impact on the existing certification. These discrepancies will be adjudicated to the satisfaction of DISA via a vendor POA&M, which will address all new critical TDRs within 120 days of identification. Testing was conducted using WAN SS product requirements derived from the Unified Capabilities Requirements (UCR), Reference (c), and WAN SS test procedures, Reference (d). The SUT was tested with an integrated Local Session Controller (LSC) and is certified for joint use with or without an LSC. No other configurations, features, or functions, except those cited within this memorandum, are certified by JITC. This certification expires upon changes that affect interoperability, but no later than three years from the date the SUT was posted on the Unified Capabilities (UC) Approved Products List (APL) (19 April 2011).
3. The extension of this certification is based upon Desktop Review (DTR) 5. The original certification is based on interoperability testing conducted by JITC, review of the vendor's Letters of Compliance (LoC), and DISA Chief Information Officer (CIO) approval of the Information Assurance (IA) configuration. Prototype Interoperability testing was conducted by JITC, Fort Huachuca, Arizona, from 29 June through 11 September 2009. APL interoperability

testing to UCR 2008 Change 1 requirements was conducted from 13 September through 1 October 2010. Review of the vendor's LoC was completed on 7 October 2010. There were additional V&V test events conducted on this product to address patch bundle updates. The last V&V test addressed patch bundle 17 and was completed on 4 November 2011. The DISA CIO has reviewed the IA Assessment Report for the SUT, Reference (e), and based on the findings in the report has provided a Authorization to Operate (ATO) on 13 April 2011. The acquiring agency or site will be responsible for the DoD Information Assurance Certification and Accreditation Process (DIACAP) accreditation. This DTR was requested to update the SUT software from Patch Bundle 17 to Patch Bundle 18 to resolve IA and interoperability issues that were identified in the operational environment. Below is a synopsis of the multiple IA and interoperability fixes included in Patch Bundle 18:

- Added an Oracle database update. Resolved in Oracle Database patch 10.2.0.4.0 Patch Level: 24.
- Resolves a Multilevel Precedence and Preemption anomaly of a higher precedence call being diverted to the alternate directory number instead of preempting the lower precedence call. Resolved in SIP Core patch MCP_13.0.0.15_2011-10-25-1755.patch.
- When an incoming call is placed from a CS1000 user to an AS5300 Unified Capabilities Client and that call is call parked, it can not be retrieved by another AS5300 user. Resolved in SIP Core patch MCP_13.0.0.15_2011-10-25-1755.patch.
- MeetMe application is having issues with announcements when conference is full. Incorrect Treatments are being played for Full MeetMe conferences. Resolved in MAS load 6.6.0.90
- Error during backup process, backup fails to complete. Resolved in MAS load 6.6.0.90
- The Secure Real Time Protocol call can not be established. Resolved in IP phone SIP firmware 03.01.16.00
- The device drivers need to be added to accommodate the new component. Resolved in M3K firmware F5.80A.061

All the IA and interoperability fixes in Patch Bundle 18 were regression tested by JITC, Fort Huachuca, Arizona, from 12 through 16 December 2011. There were no new IA findings during the regression test, therefore, the original IA approval applies to this DTR. There were also no interoperability discrepancies found during regression testing, therefore, JITC approves this DTR.

4. The interface, Capability Requirements (CR) and Functional Requirements (FR), and component status of the SUT are listed in Tables 1 and 2. The threshold CR/FR for WAN SSs are established by Section 5.3.2.8.4, 5.3.5, and 5.4 of Reference (c) and were used to evaluate interoperability of the SUT. Enclosure 3 provides a detailed list of WAN SS requirements.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Avaya Aura™ AS5300 Wide Area Network (WAN) Softswitch (SS), Version 2.0 (with specified patch releases)

Table 1. SUT Interface Interoperability Status

Interface	Critical	UCR Reference	Threshold CR/FR ¹	Status	Remarks ²																																																																																				
External Interfaces																																																																																									
10Base-X	Yes	5.3.2.4.2	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, and 14	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j for the AS-SIP trunk.																																																																																				
100Base-X	Yes	5.3.2.4.2	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, and 14	Certified	Met threshold CRs/FRs for IEEE 802.3u for the AS-SIP trunk.																																																																																				
1000Base-X	Yes	5.3.2.4.2	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, and 14	Certified	Met threshold CRs/FRs for IEEE 802.3z and 802.3ab. Applies to AS-SIP trunk interface.																																																																																				
ISDN T1 PRI ANSI T1.619a	Yes	5.3.2.4.3	2, 3, 6, 7, 9, 11, and 14	Certified	Met threshold CRs/FRs. This interface provides legacy DSN and TELEPORT connectivity.																																																																																				
ISDN T1 PRI NI-2	Yes	5.3.2.4.3	2, 3, 6, 7, 9, 11, and 14	Certified	Met threshold CRs/FRs. This interface provides PSTN connectivity.																																																																																				
E1 PRI ITU-T Q.931	No	5.3.2.12.10	2, 3, 6, 7, 9, 11, and 14	Certified	Met threshold CRs/FRs for this interface. This interface provides PSTN connectivity..																																																																																				
SONET OC-3	No	5.3.2.8.4	2, 3, 6, 7, 9, 11, and 14	Certified	Met threshold CRs/FRs for this interface.																																																																																				
NM																																																																																									
10Base-X	Yes	5.3.2.4.4 5.3.2.7.2.8	15	Certified	Met threshold CRs/FRs for this interface. Verified via LoC.																																																																																				
100Base-X	Yes	5.3.2.4.4 5.3.2.7.2.8	15	Certified	Met threshold CRs/FRs for this interface. Verified via LoC.																																																																																				
NOTES: 1. The SUT high-level CR and FR ID numbers depicted in the Threshold CRs/FRs column can be cross-referenced in Table 2. These high-level CR/FR requirements refer to a detailed list of requirements provided in Enclosure 3. 2. Detailed information pertaining to open TDRs and associated operational impacts is in Enclosure 2, paragraph 11.																																																																																									
LEGEND: <table><tr><td>10Base-X</td><td>10 Mbps Ethernet</td><td>JITC</td><td>Joint Interoperability Test Command</td></tr><tr><td>100Base-X</td><td>100 Mbps Ethernet</td><td>LoC</td><td>Letter of Compliance</td></tr><tr><td>1000Base-X</td><td>1000 Mbps Ethernet</td><td>Mbps</td><td>Megabits per second</td></tr><tr><td>802.3i</td><td>10 Mbps twisted pair media for 10Base-X networks</td><td>MLPP</td><td>Multi-Level Precedence and Preemption</td></tr><tr><td>802.3j</td><td>10 Mbps fiber media for 10Base-X networks</td><td>NI-2</td><td>National ISDN Standard 2</td></tr><tr><td>802.3u</td><td>100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbps with auto negotiation</td><td>NM</td><td>Network Management</td></tr><tr><td>ANSI</td><td>American National Standards Institute</td><td>OC-3</td><td>Optical Carrier Level 3 (155 Mbps)</td></tr><tr><td>APL</td><td>Approved Products List</td><td>PRI</td><td>Primary Rate Interface</td></tr><tr><td>AS-SIP</td><td>Assured Services Session Initiation Protocol</td><td>PSTN</td><td>Public Switched Telephone Network</td></tr><tr><td>CAS</td><td>Channel Associated Signaling</td><td>Q.931</td><td>Signaling Standard for ISDN</td></tr><tr><td>CCS7</td><td>Common Channel Signaling Number 7</td><td>Q.955.3</td><td>ISDN Signaling Standard for E1 MLPP</td></tr><tr><td>CR</td><td>Capability Requirement</td><td>SONET</td><td>Synchronous Optical Network</td></tr><tr><td>DSN</td><td>Defense Switched Network</td><td>SS</td><td>Softswitch</td></tr><tr><td>E1</td><td>European Basic Multiplex Rate (2.048 Mbps)</td><td>SS7</td><td>Signaling System 7</td></tr><tr><td>FR</td><td>Functional Requirement</td><td>SUT</td><td>System Under Test</td></tr><tr><td>ID</td><td>Identification</td><td>T1</td><td>Digital Transmission Link Level 1 (1.544 Mbps)</td></tr><tr><td>IEEE</td><td>Institute of Electrical and Electronics Engineers</td><td>T1.619a</td><td>SS7 and ISDN MLPP Signaling Standard for T1</td></tr><tr><td>ISDN</td><td>Integrated Services Digital Network</td><td>TDR</td><td>Test Discrepancy Reports</td></tr><tr><td>ITU-T</td><td>International Telecommunication Union – Telecommunication Standardization Sector</td><td>UC</td><td>Unified Capabilities</td></tr><tr><td></td><td></td><td>UCR</td><td>Unified Capabilities Requirements</td></tr><tr><td></td><td></td><td>WAN</td><td>Wide Area Network</td></tr></table>						10Base-X	10 Mbps Ethernet	JITC	Joint Interoperability Test Command	100Base-X	100 Mbps Ethernet	LoC	Letter of Compliance	1000Base-X	1000 Mbps Ethernet	Mbps	Megabits per second	802.3i	10 Mbps twisted pair media for 10Base-X networks	MLPP	Multi-Level Precedence and Preemption	802.3j	10 Mbps fiber media for 10Base-X networks	NI-2	National ISDN Standard 2	802.3u	100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbps with auto negotiation	NM	Network Management	ANSI	American National Standards Institute	OC-3	Optical Carrier Level 3 (155 Mbps)	APL	Approved Products List	PRI	Primary Rate Interface	AS-SIP	Assured Services Session Initiation Protocol	PSTN	Public Switched Telephone Network	CAS	Channel Associated Signaling	Q.931	Signaling Standard for ISDN	CCS7	Common Channel Signaling Number 7	Q.955.3	ISDN Signaling Standard for E1 MLPP	CR	Capability Requirement	SONET	Synchronous Optical Network	DSN	Defense Switched Network	SS	Softswitch	E1	European Basic Multiplex Rate (2.048 Mbps)	SS7	Signaling System 7	FR	Functional Requirement	SUT	System Under Test	ID	Identification	T1	Digital Transmission Link Level 1 (1.544 Mbps)	IEEE	Institute of Electrical and Electronics Engineers	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1	ISDN	Integrated Services Digital Network	TDR	Test Discrepancy Reports	ITU-T	International Telecommunication Union – Telecommunication Standardization Sector	UC	Unified Capabilities			UCR	Unified Capabilities Requirements			WAN	Wide Area Network
10Base-X	10 Mbps Ethernet	JITC	Joint Interoperability Test Command																																																																																						
100Base-X	100 Mbps Ethernet	LoC	Letter of Compliance																																																																																						
1000Base-X	1000 Mbps Ethernet	Mbps	Megabits per second																																																																																						
802.3i	10 Mbps twisted pair media for 10Base-X networks	MLPP	Multi-Level Precedence and Preemption																																																																																						
802.3j	10 Mbps fiber media for 10Base-X networks	NI-2	National ISDN Standard 2																																																																																						
802.3u	100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbps with auto negotiation	NM	Network Management																																																																																						
ANSI	American National Standards Institute	OC-3	Optical Carrier Level 3 (155 Mbps)																																																																																						
APL	Approved Products List	PRI	Primary Rate Interface																																																																																						
AS-SIP	Assured Services Session Initiation Protocol	PSTN	Public Switched Telephone Network																																																																																						
CAS	Channel Associated Signaling	Q.931	Signaling Standard for ISDN																																																																																						
CCS7	Common Channel Signaling Number 7	Q.955.3	ISDN Signaling Standard for E1 MLPP																																																																																						
CR	Capability Requirement	SONET	Synchronous Optical Network																																																																																						
DSN	Defense Switched Network	SS	Softswitch																																																																																						
E1	European Basic Multiplex Rate (2.048 Mbps)	SS7	Signaling System 7																																																																																						
FR	Functional Requirement	SUT	System Under Test																																																																																						
ID	Identification	T1	Digital Transmission Link Level 1 (1.544 Mbps)																																																																																						
IEEE	Institute of Electrical and Electronics Engineers	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1																																																																																						
ISDN	Integrated Services Digital Network	TDR	Test Discrepancy Reports																																																																																						
ITU-T	International Telecommunication Union – Telecommunication Standardization Sector	UC	Unified Capabilities																																																																																						
		UCR	Unified Capabilities Requirements																																																																																						
		WAN	Wide Area Network																																																																																						

Table 2. SUT CR and FR Status

CR/FR ID	Capability/Function	Applicability ¹	UCR Reference	Status	Remarks
1	Assured Services Product Features and Capabilities				
	DSCP Packet Marking	Required	5.3.2.2.1.4	Met	None
	Voice Features and Capabilities	Required	5.3.2.2.2.1	Partially Met ²	None
	Public Safety Features	Required	5.3.2.2.2.2	Met	None
	ASAC Voice	Required	5.3.2.2.2.3.1.2	Met	None
	ASAC Video	Required	5.3.2.2.2.3.2	Met	None
	Signaling Protocols	Required	5.3.2.2.2.3	Met	None
	Signaling Performance	Required	5.3.2.2.2.4	Met	None
2	Registration, Authentication, and Failover				
	Registration	Required	5.3.2.3.1	Met	None
	Failover	Required	5.3.2.3.2	Met	None
3	Product Physical, Quality, and Environmental Factors				
	Availability	Required	5.3.2.5.2.1	Met	None
	Maximum Downtimes	Required	5.3.2.5.2.2	Met	None
	Loss of Packets	Required	5.3.2.5.4	Met	None
4	Global Location Server				
	Global Location Server Requirements	Required	5.3.2.8.2.2	Met	None
5	LSC Requirements for WAN Softswitch				
	LSC Requirements	Conditional	5.3.2.7	Partially Met ³	None
6	Call Connection Agent Requirements				
	CCA IWF Component	Required	5.3.2.9.2.1	Met	None
	CCA MGC Component	Required	5.3.2.9.2.2	Met	None
	SG Component	Conditional	5.3.2.9.2.3	Not Tested ⁴	None
	CCA-IWF Support for AS-SIP	Required	5.3.2.9.5.1	Met	None
	CCA-IWF Support for SS7	Conditional	5.3.2.9.5.2	Not Tested ⁴	None
	CCA-IWF Support for PRI via MG	Required	5.3.2.9.5.3	Met	None
	CCA-IWF Support for CAS Trunks via MG	Conditional	5.3.2.9.5.4	Not Tested ⁴	None
	CCA-IWF Support for VoIP and TDM Protocol Interworking	Required	5.3.2.9.5.6	Met	None
	CCA Preservation of Call Ringing State during Failure Conditions	Required	5.3.2.9.6	Not Met ⁵	None
	CCA Interactions with Transport Interface Functions	Required	5.3.2.10.3	Met	None
	CCA Interactions with the EBC	Required	5.3.2.10.4	Met	None
	CCA Support for Admission Control	Required	5.3.2.10.5	Met	None
	CCA Support for UFS	Required	5.3.2.10.6	Met	None
	CCA Support for IA	Required	5.3.2.10.7	Met	None
	CCA Support for AS Voice and Video	Required	5.3.2.10.11	Partially Met ^{6,7}	None
	CCA Interactions with Service control Functions	Required	5.3.2.10.12	Met	None
	CCA Interworking between AS-SIP and SS7	Conditional	5.3.2.11	Not Tested ⁴	None

Table 2. SUT CR and FR Status (continued)

CR/FR ID	Capability/ Function	Applicability ¹	UCR Reference	Status	Remarks
7	MG Requirements				
	Role of MG In SS	Required	5.3.2.12.3.2.1	Met	None
	MG Support for ASAC	Required	5.3.2.12.4.1	Met	None
	MG and IA Functions	Required	5.3.2.12.4.2	Met	None
	MG Interaction with Service Control Function	Required	5.3.2.12.4.3	Met	None
	MG Interactions with IP Transport Interface Functions	Required	5.3.2.12.4.4	Met	None
	MG-EBC interactions	Required	5.3.2.12.4.5	Met	None
	MG IP-Based PSTN Interface Requirements	Conditional	5.3.2.12.4.7	Not Tested ⁴	None.
	MG support for User Features and Services	Required	5.3.2.12.4.9	Met	None
	MG Interface to TDM	Required	5.3.2.12.5	Met ⁴	None
	MG Interface to TDM Allied and Coalition	Conditional	5.3.2.12.6	Not Tested ⁴	None.
	MG Interface to TDM PSTN in U.S	Required	5.3.2.12.7	Met	None
	MG Interfaces to TDM PSTN OCONUS	Required	5.3.2.12.8	Met	None
	MG Support for CCS7	Conditional	5.3.2.12.9	Not Tested ⁴	None
	MG Support for ISDN PRI Trunks	Required	5.3.2.12.10	Met	None
	MG Support for CAS Trunks	Conditional	5.3.2.12.11	Not Tested ⁴	None
	MG Echo Cancellation	Required	5.3.2.12.13	Met	None
	MG Clock Timing	Required	5.3.2.12.14	Met	None
	MGC-MG CCA Functions	Required	5.3.2.12.15	Met	None
	MG V.150. ¹	Required	5.3.2.12.16	Not Met ⁸	None
	MG Preservation of Call Ringing during Failure	Required	5.3.2.12.17	Not Tested ⁵	None
8	SG Requirements				
	SG and CCS7 Network Interactions	Conditional	5.3.2.13.5.1	Not Tested ⁴	None
	SG Interactions with CCA	Conditional	5.3.2.13.5.2	Not Tested ⁴	None
	SG Interworking Functions	Conditional	5.3.2.13.5.3	Not Tested ⁴	None
9	WWNDP Requirements				
	WWNDP	Required	5.3.2.16	Met	None
	DSN WWNDP	Required	5.3.2.16.1	Met	None
10	Commercial Cost Avoidance				
	Commercial Cost Avoidance	Required	5.3.2.23	Met ⁹	None
11	Precedence Call Diversion				
	Precedence call Diversion	Conditional	5.3.2.25	Met	None
12	AS-SIP Requirements				
	AS-SIP General Requirements	Required	5.3.4	Partially Met ⁷	None
	SIP Session Keep-Alive Timer	Required	5.3.4.8	Met	None
	Session Description Protocol	Required	5.3.4.9	Met	None
	Precedence and Preemption	Required	5.3.4.10	Met	None
	Video Telephony – General Rules	Required	5.3.4.12	Partially Met ⁷	None
	Calling Services	Required	5.3.4.13	Met	None
	SIP Translation Requirements for Inter-working AS-SIP Signaling Appliances	Required	5.3.4.14	Met	None
	Relevant Timers for the Terminating Gateway and the Originating Gateway	Required	5.3.4.15	Met	None
	SIP Requirements for Interworking AS-SIP Signaling Appliance	Required	5.3.4.16	Met	None
	Keep-Alive Timer Requirements for Interworking AS-SIP Signaling Appliances	Required	5.3.4.17	Met	None
	Precedence and Preemption Extensions for Interworking AS-SIP Signaling Appliances	Required	5.3.4.18	Met	None
	Supplementary Services	Required	5.3.4.19	Met	None

Table 2. SUT CR and FR Status (continued)

CR/FR ID	Capability/ Function	Applicability¹	UCR Reference	Status	Remarks
13	IPv6 Requirements				
	Product Requirements	Required	5.3.5.4	Partially Met ¹⁰	None
14	Information Assurance				
	Information Assurance Requirements	Required	5.4	Met ¹¹	None
15	Network Management				
	General Management Requirements	Required	5.3.2.17.2	Partially Met ¹²	None
	VVoIP NMS Interface Requirements	Required	5.3.2.4.4	Partially Met ¹²	None
	Requirement for FCAPS Management	Required	5.3.2.17.3	Partially Met ^{12,13}	None
	NM requirements of Appliance Functions	Required	5.3.2.18	Partially Met ¹²	None
	Accounting Management	Required	5.3.2.19	Partially Met ¹²	None

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Avaya Aura™ AS5300 Wide Area Network (WAN) Softswitch (SS), Version 2.0 (with specified patch releases)

NOTES:

1. The annotation of 'required' refers to a high-level requirement category. The applicability of each sub-requirement is provided in Enclosure 3.
2. The SUT had outstanding open TDRs at the completion of testing, which were adjudicated by DISA to have a minor operational impact. The vendor has submitted a POA&M to address the open TDRs. Reference (f), Enclosure 2, Paragraph 11, provides additional details.
3. The LSC is an optional integrated component of the SUT and; therefore, the SUT is certified for joint use with or without the LSC. The SUT was certified with noted minor operational discrepancies. The LSC Special Interoperability Certification letter and test summary report is posted on the UC APL under TN# 0911801. The SUT partially met PEI requirements (no video). The AEI and Operator Console requirements were not tested; this requirement represents a new UCR requirement (Jan 2010) at the time of the APL interoperability testing and therefore compliance is not mandatory at that time, based on allowance of an 18-month development cycle for new requirements.
4. This capability or interface is a conditional requirement for a WAN SS. The SUT met all the interfaces requirements for a T1 ISDN PRI (ANSI T1.619a and ANSI T1 607 NI2) and E1 ISDN PRI (ETSI PSTN interface only).
5. This requirement represents a new UCR requirement (Jan 2010) at the time of the APL interoperability testing and therefore compliance is not mandatory at that time, based on allowance of an 18-month development cycle for new requirements.
6. The SUT PEI hardphone met the UCR requirements for voice only. The PEI softphone met both voice and video requirements with one exception: The softphone can assign any DSCP value from 0-63 to media and signaling but cannot assign a unique DSCP value for each precedence level per the UCR when running on Windows Vista or Windows 7. The softphone assigns the same DSCP value for all precedence levels. This discrepancy was adjudicated by DISA on August 2011 with a minor operational impact.
7. The vendor did not support AEI video or voice capability. This was adjudicated by DISA to have a minor operational impact since there were no certified AEI video end instruments on the UC APL and furthermore, AEIs are a new UCR 2008, Change 1 requirement and therefore compliance is not mandatory at the time of APL interoperability testing, based on allowance of an 18-month development cycle for new requirements.
8. The vendor did not demonstrate V.150.1 support. This requirement represents a new UCR requirement (Jan 2010) at the time of the APL interoperability testing and therefore compliance is not mandatory at that time, based on allowance of an 18-month development cycle for new requirements.
9. The SUT met this requirement with a Lightweight Directory Access Protocol server which is covered under a separate Interoperability Certification listed separately on the UC APL.
10. The DISA adjudicated all open TDRs to have a minor operational impact. The fielding of the SUT is limited to IPv4 across the DISN based on the fielding environment, IPv6 partial compliance and POA&M addressing critical IPv6 discrepancies in their next major release in 2012. DISA retains the authority to remove this product from the Department of Defense (DoD) Unified Capabilities (UC) Approved Products List (APL) as follow-on products are fielded with full IPv6 capability. The SUT was tested and met IPv6 interoperability requirements with its optional LSC intra-enclave only with the following discrepancies which were adjudicated by DISA as having a minor operational impact:
 - a. POA&M. The SUT does not meet RFC 4007 for IPv6 Scoped Address Architecture.
 - b. The SUT does not support IPv6 (Signaling or Media) with the MP112 and MP124 analog IADs.
 - c. The SUT SESM Core supports IPv4 only for signaling inter-enclave (WAN).
 - d. The SUT Audio Codes MG3K supports IPv4 only for signaling and both IPv4 and IPv6 dual stack for media intra and interenclave.
11. Information Assurance was tested by a DISA-led Information Assurance test team and published in a separate report, Reference (e).
12. The vendor submitted a NM LoC with noted discrepancies. The following open TDRs were adjudicated by DISA to have a minor operational impact with a vendor submitted POA&M:
 - a. The SUT does not fully support SNMP and MIBs IAW IETF Standards 58 and 62.
 - b. The SUT is not fully compliant with NM call detail records formats.
 - c. SUT does not support management requirements for ASAC.
13. The SUT does not support destination code controls. The SUT does not have the capability of setting the percentage of calls to be blocked to the designated destination(s). This was adjudicated by DISA to have a minor operational impact.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Avaya Aura™ AS5300 Wide Area Network (WAN) Softswitch (SS), Version 2.0 (with specified patch releases)

LEGEND:			
AEI	Assured Services End Instrument	LSC	Local Session Controller
APL	Approved Products List	Mbps	Megabits per second
ASAC	Assured Services Admission Control	MG	Media Gateway
AS	Assured Services	MGC	Media Gateway Controller
ASD/NII	Assistant Secretary of Defense for Networks and Information Integration	MIB	Management Information Base
AS-SIP	Assured Services Session Initiation Protocol	NM	Network Management
CAS	Channel Associated Signaling	NMS	Network Management System
CCA	Call Connection Agent	OCONUS	Outside the Continental United States
CCS7	Common Channel Signaling Number 7	PEI	Proprietary End Instrument
CR	Capability Requirement	POA&M	Plan of Action and Milestones
CM	Configuration Management	PRI	Primary Rate Interface
DISA	Defense Information Systems Agency	PSTN	Public Switched Telephone Network
DISN	Defense Information System Network	RFC	Request for Comment
DoD	Department of Defense	SESM	Subscriber Edge Services Manager
DSCP	Differentiated Services Code Point	SG	Signaling Gateway
DSN	Defense Switched Network	SIP	Session Initiation Protocol
E1	European Basic Multiplex Rate (2.048 Mbps)	SNMP	Simple Network Management Protocol
EMS	Element Management System	SNMPv2	Simple Network Management Protocol version 2
FR	Functional Requirement	SNMPv3	Simple Network Management Protocol version 3
IA	Information Assurance	SS	Softswitch
IAW	In accordance with	SS7	Signaling System 7
IETF	Internet Engineering Task Force	SUT	System Under Test
IP	Internet Protocol	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IPSec	Internet Protocol Security	TDR	Test Discrepancy Report
IPv6	Internet Protocol version 6	TDM	Time Division Multiplexing
ISDN	Integrated Services Digital Network	UC	Unified Capabilities
IWF	Interworking Function	UCR	Unified Capabilities Requirements
LDAP	Lightweight Directory Access Protocol	VoIP	Voice over Internet Protocol
LoC	Letter of Compliance	VVoIP	Voice and Video over Internet Protocol
		WAN	Wide Area Network
		WWNDP	World Wide Numbering and Dialing Plan


5. No detailed test report was developed in accordance with the Program Manager's request. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) e-mail. More comprehensive interoperability status information is available via the JITC System Tracking Program (STP). The STP is accessible by .mil/gov users on the NIPRNet at <https://stp.fhu.disa.mil>. Test reports, lessons learned, and related testing documents and references are on the JITC Joint Interoperability Tool (JIT) at <http://jit.fhu.disa.mil> (NIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>. All associated data is available on the Defense Information Systems Agency Unified Capability Coordination Office (UCCO) website located at <http://www.disa.mil/ucco/>.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Avaya Aura™ AS5300 Wide Area Network (WAN) Softswitch (SS), Version 2.0 (with specified patch releases)

6. The JITC point of contact is Captain Stéphane Arsenault, JITC, commercial (520) 538-5269 or DSN 312-879-5269; e-mail address is Stephane.Arsenault@disa.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The UCCO tracking number for the SUT is 1031901.

FOR THE COMMANDER:

Enclosure a/s


for BRADLEY A. CLARK
Chief
Battlespace Communications Portfolio

Distribution (electronic mail):

Joint Staff J-6

Joint Interoperability Test Command, Liaison, TE3/JT1

Office of Chief of Naval Operations, CNO N6F2

Headquarters U.S. Air Force, Office of Warfighting Integration & CIO, AF/XCIN (A6N)

Department of the Army, Office of the Secretary of the Army, DA-OSA CIO/G-6 ASA (ALT),
SAIS-IOQ

U.S. Marine Corps MARCORSYSCOM, SIAT, MJI Division I

DOT&E, Net-Centric Systems and Naval Warfare

U.S. Coast Guard, CG-64

Defense Intelligence Agency

National Security Agency, DT

Defense Information Systems Agency, TEMC

Office of Assistant Secretary of Defense (NII)/DOD CIO

U.S. Joint Forces Command, Net-Centric Integration, Communication, and Capabilities
Division, J68

Defense Information Systems Agency, GS23

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, “Department of Defense Unified Capabilities Requirements 2008, Change 1,” 22 January 2010
- (d) Joint Interoperability Test Command, “Unified Capabilities Test Plan (UCTP)”
- (e) Joint Interoperability Test Command, “Information Assurance (IA) Assessment of Avaya Aura™ AS5300 Version 2.0 WAN SS (TN 1031901),” 1 April 2011